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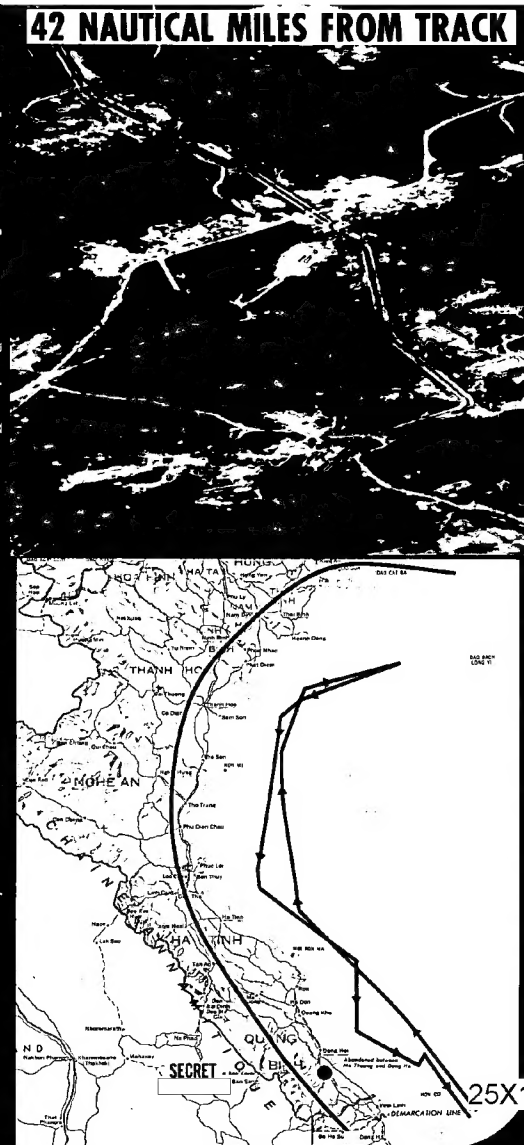
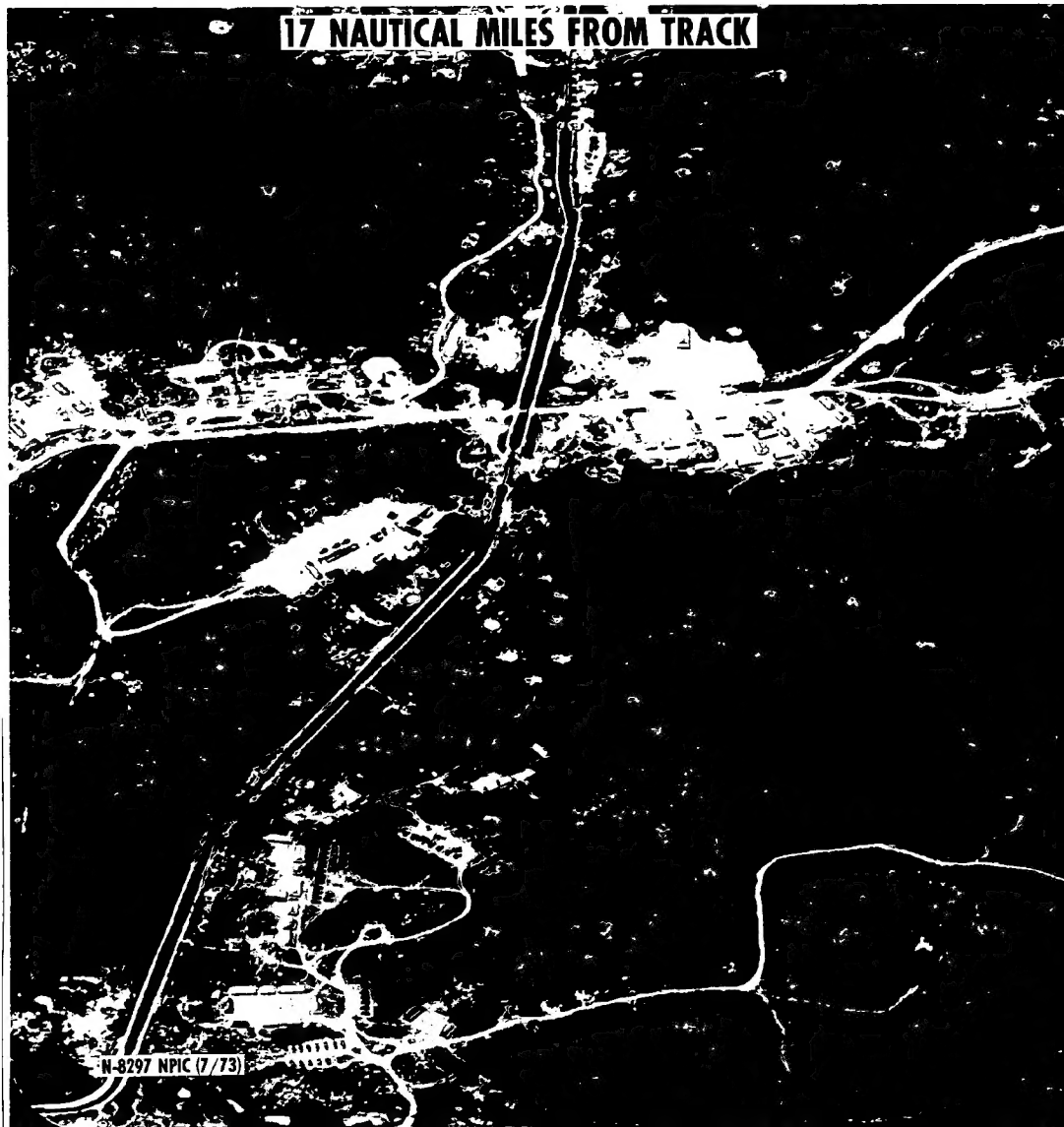
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LOGISTICS FACILITY BAT LAKE NORTH VIETNAM

MISSION SU S-033-E, 21 JULY 1973

17 NAUTICAL MILES FROM TRACK

42 NAUTICAL MILES FROM TRACK



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REFERENCE TO: SU S033E

SCOPE SHIELD MISSION SU S-033E

21 JULY 1973

1. SIGNIFICANCE: PLANNED MISSION TRACK AND SELECTED PHOTOGRAPHS
FROM THE THIRD SCOPE SHIELD MISSION (S-033E)
OF 21 JULY 1973.

2. LOCATION: SCOPE SHIELD MISSION S-033E PROVIDED COVERAGE OF
THE VIETNAMESE COASTAL AREAS FROM QUANG TRI
PROVINCE, SOUTH VIETNAM TO THE DO SON PENINSULA
IN NORTH VIETNAM.

3. MISSION READOUT: SCOPE SHIELD MISSION S-033E

(N-8303)

SCOPE SHIELD MISSION S-033E PROVIDED THE BEST PERIPHERAL COVERAGE TO
DATE OF THE VIETNAMESE COASTAL AREAS. CLOUD COVER WAS APPROXIMATELY
10 PERCENT. OTHER THAN THE CLOUD COVERED AREAS, NO SEVERE ATMOSPHERIC
DEGRADATION WAS ENCOUNTERED. THE INTERPRETABILITY OF THE MISSION
RANGED FROM POOR-TO-FAIR WITH AN OVERALL EVALUATION OF FAIR FOR
SATISFYING MOST INTELLIGENCE REQUIREMENTS. INTERPRETABILITY OF

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WARNING NOTICE
Sensitive Intelligence Sources
and Methods Involved.

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TARGETS BEYOND 30 NAUTICAL MILES (NM) FROM FLIGHT TRACK WAS LIMITED BY EXTREME OBLIQUITY, SMALL SCALE IMAGERY AND A SLIGHT OUT-OF-FOCUS CAMERA CONDITION. PHOTOGRAPHY OF MANY AREAS GREATER THAN 35 NM FROM THE PLANNED FLIGHT TRACK WAS GENERALLY UNUSABLE FOR DETAILED INTERPRETATION OF MOST TARGET/EQUIPMENT CATEGORIES. INTERPRETATION OF THIS MISSION, LIKE ALL OBLIQUE PHOTOGRAPHY, WAS HAMPERED BY MASKING FROM TERRAIN AND VEGETATION.

THIS MISSION PROVIDED NEW OR UPDATED INFORMATION ON LAND AND WATER-BORNE LOGISTICS ROUTES, LOGISTICS SUPPORT FACILITIES, TRANSSHIPMENT POINTS AND STORAGE AREAS, SA-2 DEPLOYMENT, A LIMITED AMOUNT OF NEW GROUND ORDER OF BATTLE INFORMATION, AND STATUS OF MILITARY BARRACKS AND AIRFIELDS.

THE FOLLOWING IS AN EVALUATION OF THIS MISSION FOR SATISFYING EEI FOR SPECIFIC TARGET CATEGORIES:

A) LOGISTICS MOVEMENTS/VEHICULAR TRAFFIC ON LINES OF COMMUNICATION

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THIS MISSION WAS OF ADEQUATE INTERPRETABILITY TO ASSESS THE EXTENT OF VEHICULAR MOVEMENT ON MAJOR ROUTES IN THE COASTAL PANHANDLE AREA. THE TYPE OF VEHICLES ON ROUTES COULD NOT BE DETERMINED AT DISTANCES GENERALLY GREATER THAN 25-30 NM FROM THE FLIGHT TRACK. AT DISTANCES LESS THAN 25 NM FROM THE FLIGHT TRACK, VEHICLES COULD USUALLY BE TYPED AS TANKS, CARGO TRUCKS, TRACTORS, PROBABLE ARMORED PERSONNEL CARRIERS, ETC. IN MOST CASES, IDENTIFICATION OF THE TYPE OF CARGO BEING MOVED, OR THE FULL/EMPTY STATUS OF CARGO TRUCKS, COULD NOT BE DETERMINED. GENERALLY, THE SERVICEABILITY OF COASTAL ROUTES, INCLUDING SURFACE CONDITIONS, BRIDGE REPAIR/RECONSTRUCTION, ETC., COULD BE DETERMINED ON PHOTOGRAPHY AT DISTANCES 25 NM OR LESS FROM THE FLIGHT TRACK.

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B) LOGISTICS FACILITIES

TWO MAJOR RAIL YARDS WERE COVERED ON THIS MISSION. PHOTOGRAPHY OF THE VINH RAIL YARD WAS OF FAIR INTERPRETABILITY AND WAS ADEQUATE TO ASSESS THE DEGREE OF SUPPLY STOCKPILING AND TRANSSHIPMENT, ROLLING STOCK COUNT BY TYPE, VEHICULAR ACTIVITY AND THE STATUS OF RAIL YARD REPAIR. (THIS TARGET WAS APPROXIMATELY 28 NM FROM FLIGHT TRACK). THE THANH HOA RAIL YARD WAS COVERED ON IMAGERY OF POOR INTERPRETABILITY. NO ASSESSMENT OF STOCKPILING AND SUPPLY TRANSFER WAS POSSIBLE. AN APPROXIMATE COUNT OF ROLLING STOCK WAS MADE. (THIS TARGET WAS 36 NM FROM FLIGHT TRACK). MISSIONS OF THIS TYPE ARE ADEQUATE FOR ASSESSMENT OF THE HIGH INTEREST LOGISTICS RELATED FACILITIES JUST NORTH OF THE DMZ. A GOOD ASSESSMENT OF NEW AND EXPANDING LOGISTICS CAMPS, TRUCK PARKS AND PROBABLE SUPPORT FACILITIES IN THIS AREA WAS POSSIBLE FROM THE SOUTH-BOUND TRACK OF THE MISSION. (THESE TARGETS WERE GENERALLY 15-20 NM FROM TRACK). ASSESSMENT OF THIS SAME AREA ON THE NORTHBOUND FLIGHT WAS CONSIDERABLY MORE DIFFICULT BECAUSE THE

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TARGETS WERE IN EXCESS OF 32 NM FROM THE FLIGHT TRACK. THE DATA BASE ON MOST OF THESE TARGETS HAS BEEN UPDATED FROM THIS MISSION. NEW TRUCK PARKS AND SMALL LOGISTICS SUPPORT CAMPS WAS ALSO IDENTIFIED IN THIS AREA. IN OTHER AREAS, GENERALLY IN THE NORTHERN HALF OF THE PANHANDLE, EQUIPMENT AND ACTIVITY AT KNOWN TRUCK PARKS AND SMALL LOGISTICS CAMPS COULD NOT BE INTERPRETED. SOME OF THESE TARGETS WERE LESS THAN 25 NM FROM TRACK.

C) WATERBORNE LOGISTICS

PHOTOGRAPHY OF ALL COASTAL SEGMENT TARGETS COVERED ON THIS MISSION WAS ADEQUATE TO ASSESS MOVEMENT OF COASTAL LOGISTICS AND NAVAL CRAFT. THE MAJOR COASTAL TRANSSHIPMENT POINT AT QUANG KHE WAS COVERED ON PHOTOGRAPHY OF POOR INTERPRETABILITY. THE APPROXIMATE DISTANCE FROM FLIGHT TRACK WAS 27 NM. A MODERATE LEVEL OF SUPPLY STOCKPILING WAS OBSERVED AND MOST LOGISTICS CRAFT COULD BE TYPED. HOWEVER,

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THE TYPE OF MATERIALS STOCKPILED COULD NOT BE DETERMINED. THE PHOTOGRAPHY WAS ADEQUATE TO ASSESS ANY MAJOR CHANGES IN TRANSSHIPMENT AND STOCKPILING PATTERNS. SEVERAL SMALLER COASTAL AND INLAND WATER TRANSSHIPMENT POINTS WERE COVERED AND THE TYPES OF CRAFT AND STOCKPILING COULD BE ASSESSED.

D) DETECTION OF MILITARY BUILDUP

A NEW ARMOR PARK AND A NEW SMALL FIELD ARTILLERY PARK WAS IDENTIFIED ON THIS MISSION AT DISTANCES OF LESS THAN 20 NM FROM TRACK. GENERALLY, THE IDENTIFICATION OF SPECIFIC WEAPONS WOULD BE DIFFICULT BEYOND THIS RANGE. THIS IS ESPECIALLY TRUE OF WEAPONS PARKED IN DENSELY VEGETATED AREAS.

E) SAM DEFENSES

NO NEW SAM SITES WERE FOUND ON THIS MISSION. THE OCCUPANCY STATUS OF MOST KNOWN SAM SITES WAS DIFFICULT TO DETERMINE. OCCUPANCY COULD ONLY BE DETERMINED BY COMPARISON OF LAUNCH POSITION AND EQUIPMENT PLACEMENT WITH PREVIOUS PHOTOGRAPHY. THE IDENTIFICATION OF NEW OR WELL CONCEALED FIELD-DEPLOYED SAM SITES WOULD BE EXTREMELY DIFFICULT. NEW

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SITES LOCATED WITHIN 20-25 NM FROM TRACK PROBABLY WOULD BE IDENTIFIED.

QUANG KHE TRANSSHIPMENT POINT

NORTH VIETNAM

(N-8298)

A MODERATE AMOUNT OF SUPPLY STOCKPILING AND ACTIVITY WAS OBSERVED AT THE QUANG KHE TRANSSHIPMENT POINT. UNIDENTIFIED SUPPLIES WERE STACKED IN OPEN STORAGE. VESSELS PRESENT AT THE TRANSSHIPMENT AREA INCLUDED ONE PROBABLE TYPE 16/17 BARGE, SEVEN PROBABLE TYPE 46/47 COASTERS, THREE FERRYS AND 10 OTHER SMALL WATERBORNE LOGISTICS CRAFT. THE ROUTE 1A FERRY CROSSING AT THE TRANSSHIPMENT POINT WAS ACTIVE WITH BOTH NORTH AND SOUTH BOUND TRAFFIC AT THE FERRY CROSSING. APPROXIMATELY 55 CARGO TRUCKS WERE ON THE ROUTES AND IN VICINITY OF TRANSSHIPMENT AREA. QUANG KHE TRANSSHIPMENT IS LOCATED AT 174200N 1062900E. THIS TARGET WAS 27 NM FROM THE PLANNED FLIGHT TRACK.

ARMOR PARK

NORTH VIETNAM

(N-8301)

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A NEWLY IDENTIFIED, SMALL ARMOR CAMP WAS IDENTIFIED ON THIS MISSION. THE CAMP CONTAINS 12 SMALL BUILDINGS AND A SMALL VEHICLE PACKING AREA. EQUIPMENT IDENTIFIED AT THE CAMP INCLUDES NINE T-54/59-TYPE TANKS, FIVE PROBABLE APC, ONE POSSIBLE ARMOR RECOVERY VEHICLE AND FOUR CARGO TRUCKS. THE CAMP IS LOCATED 21 NM SSE OF DONG HOI AT 171030N 1065018E. THE TARGET IS APPROXIMATELY 17* NM FROM TRACK. (*THIS DISTANCE HAS BEEN REFINED FROM INITIAL MENSURATION OF 22 NM).

FIELD DEPLOYED SA-2 SITES

NORTH VIETNAM

(N-8300)

THANH HOA SAM SITE A02A-2 (NVN 578) WAS OCCUPIED BY FOUR SA-2 LAUNCHERS AND TWO ELECTRONICS VANS. EIGHTEEN OTHER VEHICLES WERE PARKED IN THE VICINITY OF THE SITE. DETAILED INTERPRETATION WAS LIMITED BY OBLIQUITY AND CAMERA FOCUS. THANH HOA SAM SITE A09-2 (NVN 560), LOCATED ADJACENT TO SITE 578 WAS UNOCCUPIED. A TOTAL OF 33 KNOWN SAM SITES WERE IDENTIFIED ON THIS MISSION. OF THE SITES IDENTIFIED TWO WERE OCCUPIED, TWO WERE POSSIBLY OCCUPIED AND EIGHT WERE UNOCCUPIED. THE OCCUPANCY STATUS OF THE OTHER 21 SITES COULD NOT BE DETERMINED DUE TO THE POOR INTERPRETABILITY OF PHOTOGRAPHY. SAM SITE NVN 578 IS

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LOCATED AT 194932W 1055301E. THE SITE IS 32 NM FROM THE PLANNED
FLIGHT TRACK.

KHE PHAT AIRFIELD

NORTH VIETNAM

(N-8299)

KHE PHAT AIRFIELD WAS OBSERVED ON EXTREME OBLIQUE PHOTOGRAPHY.
NO SIGNIFICANT CHANGE WAS OBSERVED FROM PREVIOUS PHOTOGRAPHY. A WHITE
PLUS-SHAPED MARKER HAD BEEN PLACED NEAR THE EASTERN END OF THE EARTH
RUNWAY. NO AIR ORDER OF BATTLE WAS OBSERVED. KHE PHAT AIRFIELD IS
LOCATED AT 173920N 1061255E. THE AIRFIELD WAS APPROXIMATELY 40 NM
FROM THE FLIGHT TRACK.

LOGISTICS FACILITY BAT LAKE

NORTH VIETNAM

(N-8297)

CONTINUED AND NEW CONSTRUCTION OF SMALL LOGISTICS RELATED
FACILITIES WAS OBSERVED JUST NORTH OF THE DMZ. THESE FACILITIES ARE
ALONG, OR IN THE VICINITY OF, MAJOR LOGISTICS ROUTES RUNNING NEAR OR
THROUGH THE DMZ. (SEVERAL OF THESE FACILITIES ARE SHOWN ON THE GRAPHIC).
BUILDINGS AT THESE FACILITIES ARE GENERALLY OF TEMPORARY OR EXPEDIENT

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CONSTRUCTION. APPROXIMATELY 90 SUCH BUILDINGS ARE SHOWN ON THIS GRAPHIC. THESE BUILDINGS PROBABLY SERVE AS STORAGE, ADMINISTRATIVE AND QUARTERS. CARGO TRUCKS ARE PRESENT AT MOST OF THESE FACILITIES PARKED IN ROWS AT SMALL MOTOR POOLS OR SCATTERED THROUGHOUT THE COMPLEXES. APPROXIMATELY 125 VEHICLES ARE LOCATED AT THE FACILITIES SHOWN ON THE GRAPHIC.

A COMPARISON OF PHOTOGRAPHY OF THIS AREA, TAKEN FROM BOTH THE NORTH AND SOUTH TRACKS OF THE MISSION, IS SHOWN. DETAILED INTERPRETATION CAN BE MADE FROM THE COVERAGE FROM THE SOUTH TRACK (LEFT PHOTO). THE TARGET WAS APPROXIMATELY 17 NM FROM THE FLIGHT TRACK AT THIS POINT. COVERAGE OF THE TARGET WAS APPROXIMATELY 42 NM FROM THE FLIGHT TRACK ON THE NORTH TRACK OF THE MISSION. ON THIS PHOTOGRAPHY THE TARGET AREA COULD BE IDENTIFIED ONLY. NO VEHICLES OR DETAILED INTERPRETATION COULD BE MADE FROM THIS COVERAGE (RIGHT PHOTO).

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TECHNICAL EVALUATION OF SCOPE SHIELD
FOCUS SHIFT WITH PROGRESSION OF MISSION
(N-8302)

TECHNICAL EVALUATION OF THE MISSION REVEALED A MODERATE DEFOCUS CONDITION. THE PHOTOGRAPHS ON THIS BOARD ILLUSTRATE THE CONDITION IN THE EARLY PHASES OF THE MISSION (NORTH TRACK) AND HOW THE CONDITION IMPROVED TOWARD THE END OF THE MISSION. THIS PROBLEM COULD HAVE GONE UNDETECTED ON THE PREVIOUS SCOPE SHIELD MISSIONS, DUE TO THE HEAVY HAZE CONDITIONS ENCOUNTERED. MISSION S-033E WAS EXCEPTIONALLY CLEAR OF ATMOSPHERIC PARTICULATE SO THAT A FOCUS SHIFT COULD BE DETECTED. THE CONDITION IS CAUSED BY A TEMPERATURE VARIATION WITH THE H CAMERA LENS.

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